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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/511,163	08/04/2005	Arthur J. Roth	02618.4006X0	9165
	7590 12/10/200 CELLA HARPER &	EXAMINER		
30 ROCKEFEL		COLE, ELIZABETH M		
NEW YORK, NY 10112			ART UNIT	PAPER NUMBER
			1794	
			MAIL DATE	DELIVERY MODE
			12/10/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/511,163	ROTH ET AL.		
Office Action Summary	Examiner	Art Unit		
	Elizabeth M. Cole	1794		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
1) ☐ Responsive to communication(s) filed on 17 Oct 2a) ☐ This action is <b>FINAL</b> . 2b) ☐ This 3) ☐ Since this application is in condition for alloward closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro			
Disposition of Claims				
4) Claim(s) 68-84 and 88-124 is/are pending in the 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed.  6) Claim(s) 68-84 and 88-124 is/are rejected.  7) Claim(s) is/are objected to.  8) Claim(s) are subject to restriction and/or Application Papers  9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access	vn from consideration. r election requirement. r. epted or b)□ objected to by the B			
Applicant may not request that any objection to the or Replacement drawing sheet(s) including the correction 11). The oath or declaration is objected to by the Ex.	ion is required if the drawing(s) is obj	jected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119		, totale in earlier in the 102		
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.				
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 6/12/07;6/7/07;8/4/05.	4)  Interview Summary Paper No(s)/Mail Da 5)  Notice of Informal P 6)  Other:	ate		

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1. Applicant's election without traverse of Group I in the reply filed on 10/17/07 is acknowledged.

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 68-84, 88-124 are rejected under 35 U.S.C. 103(a) as being unpatentable over Motoi et al, U.S. Patent NO. 6,635,343. Motoi et al discloses a method of making a composite material comprising providing a fibrous layer, applying a thermosetting resin precursor to the fibrous layer, forming the layer into a tube, (which corresponds to the claimed sleeve-like configuration), injecting a fluid matrix resin into the sleeve and holding the components so that they are held in place and subjected to heating and cooling in order to foam and cure the components. See col. 27, line 39 – col. 29, line 24, as well as figure 12. Motoi teaches that suitable resins for the thermosetting resin precursor include polyurethanes, phenolic resins, polyester, epoxy resins, urea reins, and melamine resins. See col. 15, lines 31-38. Urea melamine and melamine formaldehyde resins are not specifically disclosed by Motoi, however, since Motoi teaches urea and melamine resins broadly, the person of ordinary skill would have been able to select particular known types of these resins for use, in view of the art recognized suitability. Motoi teaches that suitable thermoplastic resins include polystyrene resins. See col. 11, lines 21-31. Motoi teaches that composite may further comprise various fillers including vitreous materials such as ground glass,

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carbonaceous materials, plastics and rubbers. See col. 6, lines 31-49. With regard to the particular amounts of filler used, since the filler is used to reinforce and also to either increase or decrease the weight of the composite, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have selected the particular amounts through the process of routine experimentation which produced the desired weight, strength, etc. Suitable fibrous materials for use in the invention of Motoi include glass and polyester fibers. See col. 18, lines 38-50. While Motoi teaches the general process as set forth above. Motoi does not specifically teach providing a layer of porous web material and a layer of parallel strands as the sleeve forming material, wherein the porous material is on the outside of the sleeve in a single embodiment. However, Motoi teaches that the outer layers of the composite material can comprise one or more layers of fibrous material such as parallel fibers, unidirectional fibers, bidirectional fibers and sewn mats. See col. 12, lines 14-27. Motoi further teaches additional reinforcing layers of paper can be added to the structure. See col. 18, lines 37-50. Therefore, the person of ordinary skill would have recognized that Motoi teaches the claimed elements and teaches that the elements can be combined by the process as set forth above at col. 27-29. Motoi teaches the outer sleeve comprising the parallel fibers, the resin impregnation, the shape stabilization, and curing of the resin precursor. While Motoi does not teach adding the outer paper layer or the additional fibrous layers to the embodiment set forth at cols. 27-29, since Motoi teaches that such additional layers can be added to the composite material in order to further strengthen the composite material, one of ordinary skill in the art would have been able to select

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additional layers, such as the claimed porous web material layer, in view of the teaching of Motoi that such layers can be added to the composite material.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elizabeth M. Cole whose telephone number is (571) 272-1475. The examiner may be reached between 6:30 AM and 6:00 PM Monday through Wednesday, and 6:30 AM and 2 PM on Thursday.

Mr. Terrel Morris, the examiner's supervisor, may be reached at (571) 272-1478.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

The fax number for all official faxes is (571) 273-8300.

/Elizabeth M. Cole/ Primary Examiner, Art Unit 1794

e.m.c